Table S2. DNF learning algorithm

Disjunctive Normal Form Learning Algorithm(C, n^+):
Input:
        A set **C** of clauses
        n^+: the set of positive sequence index to be covered by the clauses
Steps:
        1. Euivalence filtering
        2. Among the clauses that cover only the positive sequences, find a minimum set of
        clauses that cover all the positive sequences:
          2a. start from the clauses that cover the positive sequences which are rarely covered
        by other clauses
          2b. repeat 2a recursively until all the positive sequences n^+ are covered
Output:
        The set of the shortest DNF